



iA (intelligent Auto) H.265 Network Camera

Panasonic WV-S2231L captures the highest quality images automatically even in very challenging and fast-changing surveillance environments. Intelligent Auto (iA) monitors scene dynamics and motion to adjust key camera settings automatically in real-time reducing distortion such as motion blur on moving objects. New industry-leading 144dB dynamic range delivers balanced scene exposure in dynamic and extreme-backlit lighting environments. In addition, color night vision provides outstanding low-light performance with accurate color rendition and saturation from i-Pro's 1/3" sensor, rivaling the performance of costlier 1/2" sensor cameras in the market. Adopting H.265 Smart Coding technology, intelligently reduces bandwidth efficiency of up to an average 75 percent over H.264 for longer recording and less storage. Cameras out-of-the-box, support full data encryption streaming and is compliant to FIPS 140-2 Level 1 standards to keep your video secured.

Extreme image quality for evidence capturing under challenging conditions.

- Auto Shutter speed control for fast moving vehicles
- Sharp and clear image of a walking person day & night
- Outstanding low light performance in true color with low noise for night time applications
- Super Dynamic 144dB for backlit situation and shadows on the streets at night

Extreme H.265 compression with new Smart Coding

- Longer recording, less storage compared to any H.264 based compression techniques
- New self-learning ROI* encoding (Auto VIQS) dynamically detect motion areas to keep vehicles and human in good picture quality while lowering your bandwidth
- New "Smart Facial Coding" adds more bandwidth reduction for ID camera applications mainly capturing faces * Region of Interest

Extreme Data Security

- Full encryption SD card edge recording to keep your data safe
- FIPS 140-2 Level 1 compliant
- Full end-to-end system encryption with supported VMS and devices to protect from IP snooping/spoofing and detect data alteration

Key Features

- Full HD 1080p 60fps
- iA (intelligent Auto)
- Extreme Super Dynamic 144dB
- Color night vision (0.0008 to 0.012 lx)
- H.265 Smart Coding
- FIPS 140-2 Level 1 compliant

Applications

- Airport (Passport control / Security checkpoint / Ticket counter)
- Retail / Bank / Education / Hospital / Building





Specifications

- Camera	Imago	Consor	Approx. 1/3 type MOS image sensor
Camera	Image Sensor Minimum Illumination		Color : 0.012 lx, BW : 0.006 lx
	wiiniiniu	miumination	(F1.6, Maximum shutter : Max. 1/30s, AGC : 11)
			BW : 0 lx
			(F1.6, Maximum shutter : Off(1/30 s), AGC : 11, when the IR LED is lit)
			Color : 0.0008 lx, BW : 0.0004 lx
	White Balance		(F1.6, Maximum shutter : Max. 16/30s, AGC : 11) *1
			AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)
	Shutter Speed		Off(1/30) to 1/10000
	Intelligent Auto Super Dynamic?2 Dynamic Range Adaptive Black Stretch Black light compensation /		*1/30 Fix to 2/100 Fix is available during 30 fps mode only.
			*2/120 Fix is available during 60 fps mode only.
			On / Off
			On / Off, the level can be set in the range of 0 to 31.
			144 dB (Super Dynamic : On)
			The level can be set in the range of 0 to 255.
			BLC (Black light compensation) / HLC (High light compensation) / Off
	High light compensation		(Only when Super dynamic and Intelligent Auto : Off)
	Fog compensation		On / Off (Only when Intelligent Auto : Off)
	Maximum gain (AGC)		The level can be set in the range of 0 to 11.
	Day/Night (ICR)		Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
	IR LED		Off / Auto (High / Mid / Low) irradiation distance : 30 m {98 feet}
	Digital Noise Reduction		The level can be set in the range of 0 to 255.
	Video Motion Detection		On / Off, 4 areas available
	Image Stabilizer		On / Off (available only in the 30 fps mode)
	Privacy Zone		On / Off (up to 8 zones available)
	Image rotation*3		0°/90°/180°/270°
	Camera	Title (OSD)	On / Off Up to 20 characters (alphanumeric characters, marks)
	Focus A	Adjustment	Auto back focus / Manual
Lens	Focal le	ngth	2.8 - 10 mm {1/8 inches - 13/32 inches}
	Zoom ra	atio	3.6 x (Motorized zoom / Auto Focus)
	Angular	Field of View	[16 : 9 mode] Horizontal : 30° (TELE) – 109° (WIDE)
			Vertical : 17° (TELE) – 58° (WIDE)
			[4:3 mode] Horizontal: 25° (TELE) – 90° (WIDE)
			Vertical : 19° (TELE) – 65° (WIDE)
		im Aperture Ratio	1 : 1.6 (WIDE) – 1 : 3.4 (TELE)
	Focusing Range		0.3 m {11-13/16 inches} – ∞
Adjusting			Horizontal : -240 to +120°, Vertical : -30 to +85°, Yaw : ±100°
Browser		Control	Brightness, AUX On / Off
GUI	Audio		Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
			Audio Output : On / Off Volume adjustment : Low / Middle / High
	GUI /		English, Italian, French, German, Spanish, Portuguese, Russian,
		lenu Language	Chinese, Japanese
Network			10Base-T / 100Base-TX, RJ45 connector
	Image F	Resolution	•2 mega pixel [16 : 9] (30/60 fps)
			1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180
			•3 mega pixel [4 : 3] (30 fps) 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240
			*Used by super resolution techniques
	H.265/	Transmission Mode	Constant bit rate / Variable bit rate / Frame rate / Best effort
		Transmission Type	Unicast / Multicast
			10 steps
	JPEG Image Quality Smart Coding		Smart Facial Coding : On (Smart Facial Coding*) / On (Auto VIQS) / Off
			*Smart Facial Coding : On (Smart Facial Coding") / On (Auto VIQS) / Off *Smart Facial Coding is only available with Stream(1).
			GOP (Group of pictures) : On (Advanced)* / On (Low) / On (Mid) / Off
			*On(Advanced) is only available with H.265.
			On(Auvanceu) is only available with H.205.

Network	Audio Compression	G.726 (ADPCM) : 32 kbps / 16 kbps,
		G.711 : 64 kbps,
		AAC-LC*5 : 64 kbps / 96 kbps / 128 kbps
	Audio transmission mode	Off / Mic (Line) input / Audio output / Interactive (Half duplex) /
		Interactive (Full duplex)
	Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP, IEEE 802.1X, DiffServ IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP,
		SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD	H.265 / H.264 recording :
	Memory Card (Option)	Manual REC / Alarm REC (Pre/Post) / Schedule REC /
		Backup upon network failure
		JPEG recording :
		Manual REC / Alarm REC (Pre/Post) / Backup upon network failure
		Compatible SD (SDHC/SDXC) card :
		Panasonic 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB**, 128 GB**, 256 GB** model
		*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Mobile Terminal Compatibility	iPad, iPhone, Android™ mobile terminals
Alarm	Alarm Source	3 terminals input, VMD, Command alarm, Audio detection alarm
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,
		HTTP alarm notification Indication on browser, FTP image transfer,
		Panasonic protocol output
Input/	Monitor Output	VBS : 1.0 V [p-p] / 75 Ω, composite, Pin jack
Output	(for adjustment)	An NTSC or PAL signal can be outputted from camera
	Microphone/Line Input	ø3.5 mm stereo mini jack
		(Applicable microphone : Plug-in power type)
		Supply voltage : 2.5 V ±0.5 V
	Audio Output	ø3.5 mm stereo mini jack (monaural output)
		Output impedance : Approx. 600 Ω (unbalanced)
	External I/O Terminals	ALARM IN 1 (DAY/NIGHT IN, Auto time adjustment) (x1),
		ALARM IN 2 (ALARM OUT) (x1), ALARM IN 3 (AUX OUT) (x1)
General	Power Source and	DC power supply : DC12 V / 560 mA / Approx. 6.8 W
	Power Consumption	PoE (IEEE802.3af compliant) Device :
		DC48 V / 150 mA / Approx. 7.2 W (Class 0 device)
	Ambient Operating	-10 °C to +50 °C (14 °F to 122 °F)
	Temperature	· · · · ·
	Ambient Operating Humidity	10 to 90 % (no condensation)
	Shock Resistance	Compliant with IK10 (IEC 62262)
	Dimensions	ø129.5 mm x 102.5 mm (H) {ø5-3/32 inches x 4-1/32 inches (H)}
		Dome radius 41.5 mm {1-5/8 inches}
	Mass (approx.)	Approx. 750 g {1.65 lbs}
	Finish	Main body : Aluminum die cast, sail white
		Dome section : Clear polycarbonate resin
*1 Conver	tea value	

Unit : mm (inches)

*2 Super Dynamic function is automatically set off on 60 fps mode.

*3 When "3 mega pixel [4 : 3](30fps mode)" is selected for "Image capture mode", "90 °" and "270 °" cannot be selected.

*4 Transmission for 4 streams can be individually set.

*5 Only use AAC-LC (Advanced Audio Coding - Low Complexity) when recording audio on an SD memory card.

Optional Accessories



Embedded Ceiling Mount Bracket WV-Q174B

Dome Cover (Smoke Type)





ø129.5(ø5-3/32")

Trademarks and registered trademarks

Appearance

56(2-7/32")

102.5(4-1/32")

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• Masses and dimensions are approximate. • Specifications are subject to change without notice.

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Important

- Safety Precaution : Carefully read the Important Information, Installation Guide and operating instructions before using this product.
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